

**TRACK IDENTIFICATION CODEWORDS HAVING MULTIPLE BIT ERROR
CORRECTION CAPABILITY AND GENERALIZED GRAY CODE PROPERTY**

ABSTRACT

1 The present invention may be embodied in a disk drive comprising a rotating magnetic
2 media having tracks identified by binary codewords, and in a related method. Each track
3 codeword for a particular track within a contiguous band of tracks differs from a track codeword
4 for an adjacent track within the contiguous band of tracks by a defined number of bits, and
5 differs from a track codeword for a nonadjacent track within the contiguous band of tracks by at
6 least the defined number of bits. The defined number N of bits is greater than four such that at
7 least two bit errors may be corrected when reading a track codeword.